

Title (en)
COMBUSTION CHAMBER OF A GAS TURBINE WITH AT LEAST A TILE

Title (de)
BRENNKAMMER EINER GASTURBINE MIT ZUMINDEST EINER SCHINDEL

Title (fr)
CHAMBRE DE COMBUSTION D'UNE TURBINE À GAZ AVEC AU MOINS UN ÉCRAN THERMIQUE

Publication
EP 3321583 B1 20210317 (DE)

Application
EP 17200874 A 20171109

Priority
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Abstract (en)
[origin: US2018128487A1] A combustion chamber of a gas turbine, with at least one shingle that including a plate-shaped shingle body that has a circumferential shingle edge which is raised from the side that is facing away from the combustion chamber interior space, and which abuts against a combustion chamber wall in the mounted state of the shingle, wherein the shingle body is provided with an arrangement of effusion cooling holes, and the combustion chamber wall is provided with an arrangement of impingement cooling holes in the area of the shingle, wherein the arrangement of impingement cooling holes has a lateral distance to the shingle edge that is between 1.5 and 2 times the distance of the surface of the combustion chamber wall to the surface of the shingle body, and that the distance of the arrangement of impingement cooling holes is between 1.1 and 3 times the lateral distance in the corner areas of the shingle.

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